

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/523,899
Source: Per
Date Processed by STIC: 2/27/06

ENTERED



PCT

RAW SEQUENCE LISTING

DATE: 02/27/2006

PATENT APPLICATION: US/10/523,899

TIME: 14:36:31

Input Set : A:\59562.APP.txt

Output Set: N:\CRF4\02272006\J523899.raw

```

3 <110> APPLICANT: JOHNS HOPKINS UNIVERSITY
5 <120> TITLE OF INVENTION: ENHANCEMENT OF ADENOVIRAL ONCOLYTIC ACTIVITY IN
6   PROSTATE CELLS BY MODIFICATION OF THE E1A GENE PRODUCT
8 <130> FILE REFERENCE: 71699/59562-PCT
C--> 10 <140> CURRENT APPLICATION NUMBER: US/10/523,899
C--> 11 <141> CURRENT FILING DATE: 2005-02-04
13 <150> PRIOR APPLICATION NUMBER: 60/401,919
14 <151> PRIOR FILING DATE: 2002-08-08
16 <160> NUMBER OF SEQ ID NOS: 22
18 <170> SOFTWARE: PatentIn Ver. 2.1
20 <210> SEQ ID NO: 1
21 <211> LENGTH: 3768
22 <212> TYPE: DNA
23 <213> ORGANISM: Artificial Sequence
25 <220> FEATURE:
26 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
27   nucleotide sequence construct EA1/AR
29 <400> SEQUENCE: 1
30 accgggactg aaaatgagac atattatctg ccacggaggt gttattaccg aagaaatggc 60
31 cgccagtctt ttggaccagc tgatcgaaga ggtactggct gataatcttc cacctcctag 120
32 ccattttgaa ccacctaccc ttcacgaact gtatgattta gacgtgacgg cccccgaaga 180
33 tcccaacgag gaggcggttt cgcagatttt tcccgaactct gtaatgttgg cgggtgcagga 240
34 agggattgac ttactcactt ttccgcccgc gcccggttct ccggagccgc ctcacctttc 300
35 ccggcagccc gagcagccgg agcagagagc cttgggtccg gtttctatgc caaaccttgt 360
36 accggaggtg atcgatctta cctgccacga ggttggtctt ccacccagtg acgacgagga 420
37 tgaagaggtt gaggagtgtt tgtagatta tgtggagcac cccgggcacg gttgcaggtc 480
38 ttgtcattat caccggagga atacggggga ccagatatt atgtgttcgc tttgctatat 540
39 gaggacctgt ggcagtgttg tctacagtaa gtgaaaatta tgggcagtgg gtgatagagt 600
40 ggtgggtttg gtgtggtaat ttttttttta atttttacag ttttgtggtt taaagaattt 660
41 tgtatttgta ttttttttaa aggtcctgtg tctgaacctg agcctgagcc cgagccagaa 720
42 ccggagcctg caagacctac ccgccgtcct aaaatggcgc ctgctatcct gagacgcccg 780
43 acatcacctg tgtctagaga atgcaatagt agtacggata gctgtgactc cggtccttct 840
44 aacacacctc ctgagataca cccggtggtc ccgctgtgcc ccattaaacc agttgccgtg 900
45 agagttgggt ggcgtcgcca ggctgtggaa tgtatcgagg acttgcttaa cgagcctggg 960
46 caaccttttg acttgagctg taaacgcccc aggccagcgg ccgcagaagt gcagttaggg 1020
47 ctgggaaggg tetacctctg gccgcggtcc aagacctacc gaggagcttt ccagaatctg 1080
48 ttccagagcg tgcgcgaagt gatccagaac ccgggccccca ggcacccaga ggccgcgagc 1140
49 gcagcacctc ccggcgccag tttgctgctg ctgcagcagc agcagcagca gcagcagcag 1200
50 cagcagcagc agcagcagca gcagcagcag cagcaagaga ctagccccag gcagcagcag 1260
51 cagcagcagg gtgaggatgg ttctcccaa gcccatcgta gaggccccac aggtacctg 1320
52 gtcttgatg aggaacagca accttcacag ccgcagtcgg cctggagtg ccaccccgag 1380
53 agaggttgcg tcccagagcc tggagccgcc gtggccgcca gcaaggggct gccgcagcag 1440
54 ctgccagcac ctccggacga ggatgactca gctgccccat ccacgttgct cctgctgggc 1500

```

RAW SEQUENCE LISTING

DATE: 02/27/2006

PATENT APPLICATION: US/10/523,899

TIME: 14:36:31

Input Set : A:\59562.APP.txt

Output Set: N:\CRF4\02272006\J523899.raw

```

55 cccactttcc cgggtttaag cagctgctcc gctgacctta aagacatcct gagcgaggcc 1560
56 agcaccatgc aactccttca gcaacagcag caggaagcag tatccgaagg cagcagcagc 1620
57 gggagagcga gggaggcctc gggggctccc acttcctcca aggacaatta cttagggggc 1680
58 acttcgacca tttctgacaa cgccaaggag ttgtgtaagg cagtgtcggg gtccatgggc 1740
59 ctgggtgtgg aggcgttggg gcatctgagt ccagggggaa agcttcgggg ggattgcatg 1800
60 tacgccccac ttttgggagt tccaccgcgt gtgcgtccca ctcttgtgct cccattggcc 1860
61 gaatgcaaag gttctctgct agacgacagc gcaggcaaga gcaactgaaga tactgtgag 1920
62 tattccccct tcaagggagg ttacacccaaa gggctagaag gcgagagcct aggtgtctct 1980
63 ggcagcgctg cagcaggagg ctccggggaca cttgaactgc cgtctaccct gtctctctac 2040
64 aagtccggag cactggacga ggcagctgcg taccagagtc gcgactacta caactttcca 2100
65 ctggctctgg ccggaccgcc gcccctccg ccgcctcccc atccccacgc tcgcatcaag 2160
66 ctggagaacc cgctggacta cggcagcgcc tggcgggctg cggcggcgca gtgcccgtat 2220
67 ggggacctgg cgagcctgca tggcgcgggg gcagcgggac ccggttctgg gtcaccctca 2280
68 gccgcgctt cctcatcctg gcacactctc ttcacagccg aagaaggcca gttgtatgga 2340
69 ccgtgtgggt gtggtggggg tgggtggcgg ggcggcgggc gcggcgggcg cggcgggcgg 2400
70 ggcggcgggc gcggcgggca ggcgggagct gtacccccct acggctacac tcggccccct 2460
71 caggggctgg cggggccagg aagcgacttc accgcacctg atgtgtggta ccctggcggc 2520
72 atggtgagca gagtgcctta tcccagtcct acttgtgtca aaagcgaaat gggccccctg 2580
73 atggatagct actccggacc ttacggggac atgcgtttgg agactgccag ggaccatggt 2640
74 ttgcccattg actattactt tccaccccag aagacctgcc tgatctgtgg agatgaagct 2700
75 tctgggtgtc actatggagc tctcacatgt ggaagctgca aggtcttctt caaaagagcc 2760
76 gctgaaggga aacagaagta cctgtgcgcc agcagaaatg attgcactat tgataaattc 2820
77 cgaaggaaaa attgtccatc ttgtcgtctt cgaaaatgtt atgaagcagg gatgactctg 2880
78 ggagcccgga agctgaagaa acttggaat ctgaaactac aggaggaagg agaggcttcc 2940
79 agcaccacca gcccactga ggagacaacc cagaagctga cagtgtcaca cattgaaggc 3000
80 tatgaatgtc agcccatctt tctgaatgtc ctggaagcca ttgagccagg ttagtgtgt 3060
81 gctggacacg acaacaacca gcccgactcc tttgcagcct tgctctctag cctcaatgaa 3120
82 ctgggagaga gacagcttgt acacgtggtc aagtgggcca aggccttgcc tggcttcgcg 3180
83 aacttacacg tggacgacca gatggctgtc attcagta ctctggatgg gctcatgggt 3240
84 tttgcatggg gctggcgatc cttcaccaat gtcaactcca ggatgctcta cttcgcccc 3300
85 gatctggtt tcaatgagta ccgcatgcac aagtcgccga tgtacagcca gtgtgtccga 3360
86 atgaggcacc tctctcaaga gtttgatgg ctccaaatca cccccagga attcctgtgc 3420
87 atgaaagcac tgctactctt cagcattatt ccagtggatg ggctgaaaaa tcaaaaattc 3480
88 tttgatgaac ttcgaatgaa ctacatcaag gaactcgatc gtatcattgc atgcaaaaga 3540
89 aaaaatccca catcctgtc aagacgcttc taccagctca ccaagctcct ggactccgtg 3600
90 cagcctattg cgagagagct gcatcagttc acttttgacc tgctaataaa gtcacacatg 3660
91 gtgagcgtgg actttccgga aatgatggca gagatcatct ctgtgcaagt gcccaagatc 3720
92 ctttctggga aagtcaagcc catctatttc cacaccagc gactcgag 3768
95 <210> SEQ ID NO: 2
96 <211> LENGTH: 2970
97 <212> TYPE: DNA
98 <213> ORGANISM: Artificial Sequence
100 <220> FEATURE:
101 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
102 nucleotide sequence construct EA1/TAD
104 <400> SEQUENCE: 2
105 accgggactg aaaatgagac atattatctg ccacggaggt gttattaccg aagaaatggc 60
106 cgccagtcct ttggaccagc tgatcgaaga ggtactggct gataatcttc cacctcctag 120
107 ccattttgaa ccacctacc ttcacgaact gtatgattta gacgtgacgg cccccgaaga 180

```

RAW SEQUENCE LISTING

DATE: 02/27/2006

PATENT APPLICATION: US/10/523,899

TIME: 14:36:31

Input Set : A:\59562.APP.txt

Output Set: N:\CRF4\02272006\J523899.raw

```

108 tcccaacgag gaggcggttt cgcagatttt tcccgactct gtaatgttg ggtgcagga 240
109 agggattgac ttactcactt ttccgcccgc gcccggttct ccggagccgc ctcacctttc 300
110 ccggcagccc gagcagccgg agcagagagc cttgggtccg gtttctatgc caaaccttgt 360
111 accggaggtg atcgatctta cctgccacga ggctggcttt ccacccagtg acgacgagga 420
112 tgaagagggg gaggagtttg tgttagatta tgtggagcac ccggggcacg gttgcaggtc 480
113 ttgtcattat caccggagga atacggggga ccagatatt atgtgttcgc tttgctatat 540
114 gaggacctgt ggcattgttg tctacagtaa gtgaaaatta tgggcagtgg gtgatagagt 600
115 ggtgggtttg gtgtggtaat ttttttttta atttttacag ttttgtggtt taaagaattt 660
116 tgtattgtga tttttttaaa aggtcctgtg tctgaacctg agcctgagcc cgagccagaa 720
117 ccggagcctg caagacctac ccgccgtcct aaaatggcgc ctgctatcct gagacgcccg 780
118 acatcacctg tgtctagaga atgcaatagt agtacggata gctgtgactc cggctccttc 840
119 aacacacctc ctgagataca ccgggtggtc ccgctgtgcc ccattaaacc agttgccgtg 900
120 agagttggtg ggcgtcgcca ggctgtggaa tgtatcgagg acttgcttaa cgagcctggg 960
121 caaccttttg acttgagctg taaacgcccc aggccagcgg ccgcagaagt gcagttaggg 1020
122 ctgggaaggg tctacctcg gccgcgctcc aagacctacc gaggagcttt ccagaatctg 1080
123 ttccagagcg tgcgcgaagt gatccagaac ccggggcccca ggcacccaga ggccgcgagc 1140
124 gcagcacctc ccggcgccag tttgctgctg ctgcagcagc agcagcagca gcagcagcag 1200
125 cagcagcagc agcagcagca gcagcagcag cagcaagaga ctagccccag gcagcagcag 1260
126 cagcagcagg gtgaggatgg ttctcccca gcccatcgta gaggccccac aggtacctg 1320
127 gtcttgatg aggaacagca accttcacag ccgcagtcgg ccctggagtg ccaccccgag 1380
128 agaggttgcg tcccagagcc tggagccgcc gtggccgcca gcaaggggct gccgcagcag 1440
129 ctgccagcac ctccggacga ggatgactca gctgccccat ccacgttgct cctgctgggc 1500
130 cccactttcc ccggcttaag cagctgctcc gctgacctta aagacatcct gagcgaggcc 1560
131 agcaccatgc aactccttca gcaacagcag cagggaagcag tatccgaagg cagcagcagc 1620
132 gggagagcga gggaggcctc gggggctccc acttcctcca aggacaatta cttagggggc 1680
133 acttcgacca tttctgacaa cgccaaggag ttgtgtaagg cagtgtcggg gtccatgggc 1740
134 ctgggtgtgg aggcgttgga gcatctgagt ccaggggaa acgcttcgggg ggattgcatg 1800
135 tacgccccac ttttgggagt tccaccgct gtgcgtccca ctcttctgct cccattggcc 1860
136 gaatgcaaag gttctctgct agacgacagc gcaggcaaga gcaactgaaga tactgctgag 1920
137 tattccccct tcaaggaggg ttacaccaa gggctagaag gcgagagcct aggtgctct 1980
138 ggcagcgtg cagcagggag ctccgggaca cttgaactgc cgtctacct gtctctctac 2040
139 aagtcggag cactggacga ggcagctgcg taccagagtc gcgactacta caactttcca 2100
140 ctggctctgg ccggaccgcc gccccctccg ccgcctcccc atccccacgc tcgcatcaag 2160
141 ctggagaacc cgctggacta cggcagcgcc tgggcggctg cggcgggcga gtgccgtat 2220
142 ggggacctgg cgagcctgca tggcgcggt gcagcgggac ccggttctgg gtcacctca 2280
143 gccgcgctt cctcatcctg gcacactctc ttcacagccg aagaaggcca gttgtatgga 2340
144 ccgtgtggtg gtggtggggg tgggtggcgg gccggcgcg gcggcgcggc 2400
145 ggcggcgcg gcggcgcgga ggcgggagct gtagccccct acggctacac tcggccccct 2460
146 caggggctgg cgggccagga aagcgacttc accgcacctg atgtgtggtt ccctggcggc 2520
147 atggtgagca gagtgcctta tcccagtcct acttgtgtca aaagcgaaat gggccccctg 2580
148 atggatagct actccggacc ttacggggac atgcgtttgg agactgccag ggacctggt 2640
149 ttgcccattg actattactt tccaccccag aagacctgcc tgatctgtgg agatgaagct 2700
150 tctgggtgtc actatggagc tctcacatgt ggaagctgca aggtcttctt caaaagagcc 2760
151 gctgaaggga aacagaagta cctgtgcgcc agcagaaatg attgcaact tgataaattc 2820
152 cgaaggaaaa attgtccatc ttgtcgtctt cggaaatgtt atgaagcagg gatgactctg 2880
153 ggagcccga agctgaagaa acttggtaat ctgaaactac aggaggaagg agaggcttcc 2940
154 agcaccacca gcccactga gtgactcgag 2970
157 <210> SEQ ID NO: 3
158 <211> LENGTH: 1305

```

RAW SEQUENCE LISTING

DATE: 02/27/2006

PATENT APPLICATION: US/10/523,899

TIME: 14:36:31

Input Set : A:\59562.APP.txt

Output Set: N:\CRF4\02272006\J523899.raw

```

159 <212> TYPE: DNA
160 <213> ORGANISM: Artificial Sequence
162 <220> FEATURE:
163 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
164     nucleotide sequence construct EA1/DBD
166 <400> SEQUENCE: 3
167 accgggactg aaaatgagac atattatctg ccacggaggt gttattaccg aagaaatggc 60
168 cgccagtctt ttggaccagc tgatcgaaga ggtactggct gataatcttc cacctcctag 120
169 ccattttgaa ccacctaccc ttcacgaact gtatgattta gacgtgacgg cccccgaaga 180
170 tcccaacgag gaggcgggtt cgcagatctt tcccgactct gtaatgttg cggtgcagga 240
171 agggattgac ttactcaact ttccgcggc gcccggttct ccggagccgc ctcacctttc 300
172 ccggcagccc gagcagccgg agcagagagc cttgggtccg gtttctatgc caaaccttgt 360
173 accggaggtg atcgatctta cctgccacga ggctggcttt ccaccagtg acgacgagga 420
174 tgaagagggg gaggagtttg tgttagatta tgtggagcac ccggggcac gttgcaggtc 480
175 ttgtcattat caccggagga atacggggga ccagatatt atgtgttcgc ttgctatat 540
176 gaggacctgt ggcattgttg tctacagtaa gtgaaaatta tgggcagtgg gtgatagagt 600
177 ggtgggtttg gtgtggtaat ttttttttta atttttacag ttttgtggtt taaagaattt 660
178 tgtattgtga tttttttaaa aggtcctgtg tctgaacctg agcctgagcc cgagccagaa 720
179 ccggagcctg caagacctac ccgcgcctc aaaatggcgc ctgctatcct gagacgccc 780
180 acatcacctg tgtctagaga atgcaatagt agtacggata gctgtgactc cggtccttct 840
181 aacacacctc ctgagataca ccgggtggtc ccgctgtgcc ccattaaacc agttgccgtg 900
182 agagttgggt ggcgtcgcca ggctgtggaa tgtatcgagg acttgcttaa cgagcctggg 960
183 caaccttttg acttgagctg taaacgcccc aggccagcgg ccgcaaagac ctgcctgatc 1020
184 tgtggagatg aagcttcttg gtgtcactat ggagctctca catgtggaag ctgcaaggtc 1080
185 ttcttcaaaa gagccgctga agggaaacag aagtacctgt gcgccagcag aaatgattgc 1140
186 actattgata aattccgaag gaaaaattgt ccatcttgtc gtcttcggaa atgttatgaa 1200
187 gcagggatga ctctgggagc ccggaagctg aagaaacttg gtaatctgaa actacaggag 1260
188 gaaggagagg cttccagcac caccagcccc actgagtgcac tcgag 1305
191 <210> SEQ ID NO: 4
192 <211> LENGTH: 3514
193 <212> TYPE: DNA
194 <213> ORGANISM: Artificial Sequence
196 <220> FEATURE:
197 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
198     nucleotide sequence construct 12S/AR
200 <400> SEQUENCE: 4
201 accgggactg aaaatgagac atattatctg ccacggaggt gttattaccg aagaaatggc 60
202 cgccagtctt ttggaccagc tgatcgaaga ggtactggct gataatcttc cacctcctag 120
203 ccattttgaa ccacctaccc ttcacgaact gtatgattta gacgtgacgg cccccgaaga 180
204 tcccaacgag gaggcgggtt cgcagatctt tcccgactct gtaatgttg cggtgcagga 240
205 agggattgac ttactcaact ttccgcggc gcccggttct ccggagccgc ctcacctttc 300
206 ccggcagccc gagcagccgg agcagagagc cttgggtccg gtttctatgc caaaccttgt 360
207 accggaggtg atcgatctta cctgccacga ggctggcttt ccaccagtg acgacgagga 420
208 tgaagagggg cctgtgtctg aacctgagcc tgagcccag ccagaaccgg agcctgcaag 480
209 acctacccgc cgtcctaaaa tggcgctgc tatcctgaga cgcccacat cacctgtgtc 540
210 tagagaatgc aatagtagta cggatagctg tgactccggt ctttctaaca cacctcctga 600
211 gatacacccg gtgggtccgc tgtgccccat taaaccagtt gccgtgagag ttggtgggcg 660
212 tcgccaggct gtggaatgta tcgaggactt gcttaacgag cctgggcaac ctttggaact 720
213 gagctgtaaa cgccccaggc cagcggccgc agaagtgcag ttagggtctg gaagggctca 780

```

RAW SEQUENCE LISTING

DATE: 02/27/2006

PATENT APPLICATION: US/10/523,899

TIME: 14:36:31

Input Set : A:\59562.APP.txt

Output Set: N:\CRF4\02272006\J523899.raw

```

214 ccctcgcccg ccgtccaaga cctaccgagg agctttccag aatctgttcc agagcgtgcg 840
215 cgaagtgatc cagaacccgg gccccaggca cccagaggcc gcgagcgcag cacctcccgg 900
216 cgccagtttg ctgctgctgc agcagcagca gcagcagcag cagcagcagc agcagcagca 960
217 gcagcagcag cagcagcagc aagagactag ccccaggcag cagcagcagc agcagggtga 1020
218 ggatggttct cccaagccc atcgtagagg cccacaggc tacctggtcc tggatgagga 1080
219 acagcaacct tcacagccgc agtcggccct ggagtgccac cccgagagag gttgcgtccc 1140
220 agagcctgga gccgcgctgg ccgccagcaa ggggctgccg cagcagctgc cagcacctcc 1200
221 ggacgaggat gactcagctg ccccatccac gttgtccctg ctgggccccca ctttccccgg 1260
222 cttaagcagc tgctccgctg accttaaga catcctgagc gaggccagca ccatgcaact 1320
223 ccttcagcaa cagcagcagg aagcagtatc cgaaggcagc agcagcggga gagcgaggga 1380
224 ggctcgggg gctcccactt cctccaagga caattactta gggggcactt cgaccatttc 1440
225 tgacaacgcc aaggagtgtg gtaaggcagt gtcggtgtcc atgggcctgg gtgtggagge 1500
226 gttggagcat ctgagtccag ggaacagct tcggggggat tgcagtacg ccccactttt 1560
227 gggagtcca cccgctgtgc gtcccactcc ttgtgccccca ttggccgaat gcaaagggtc 1620
228 tctgctagac gacagcgcag gcaagagcac tgaagatact gctgagtatt cccctttcaa 1680
229 gggagggttac accaaagggc tagaaggcga gagcctaggc tgctctggca gcgctgcagc 1740
230 agggagctcc gggacacttg aactgccgtc taccctgtct ctctacaagt ccggagcact 1800
231 ggacgaggca gctgcgtacc agagtgcgca ctactacaac tttccactgg ctctggccgg 1860
232 accgccccc cctccgcgc ctccccatcc ccacgctcgc atcaagctgg agaaccgcgt 1920
233 ggactacggc agcgctggg cggtgcggc ggcgcagtgc cgctatgggg acctggcgag 1980
234 cctgcatggc gcgggtgcag cgggacccgg ttctgggtca ccctcagccg ccgcttcctc 2040
235 atcctggcac actctcttca cagccgaaga aggcagttg tatggaccgt gtggtggtgg 2100
236 tgggggtggt ggcggcgggc gcggcgggcg cggcgggcg gcggcgggcg gcggcgggcg 2160
237 cggcgaggcg ggagctgtag cccctacgg ctacactcgg cccctcagg ggctggcggg 2220
238 ccaggaaagc gacttcaccg cacctgatgt gtggtaccct ggcggcagtg tgagcagagt 2280
239 gccctatccc agtcccactt gtgtcaaaag cgaaatgggc ccctggatgg atagctactc 2340
240 cggaccttac ggggacatgc gtttgagac tgccagggac catgttttgc ccattgacta 2400
241 ttactttcca cccagaaga cctgcctgat ctgtggagat gaagcttctg ggtgtcacta 2460
242 tggagctctc acatgtggaa gctgcaaggc cttcttcaaa agagccgctg aagggaaca 2520
243 gaagtacctg tgcgccagca gaaatgattg cactattgat aaattccgaa ggaaaaattg 2580
244 tccatcttgt cgtcttcgga aatgttatga agcagggatg actctgggag cccggaagct 2640
245 gaagaaactt ggtaacttga aactacagga ggaaggagag gcttccagca ccaccagccc 2700
246 cactgaggag acaaccagca agctgacagt gtcacacatt gaaggctatg aatgtcagcc 2760
247 catctttctg aatgtcctgg aagccattga gccagggtga gtgtgtgctg gacacgacaa 2820
248 caaccagccc gactcctttg cagccttgct ctctagcctc aatgaactgg gagagagaca 2880
249 gcttgtagac gtggtcaagt gggccaaggc cttgcctggc ttccgcaact tacacgtgga 2940
250 cgaccagatg gctgtcattc agtactcctg gatggggctc atggtgtttg ccatgggctg 3000
251 gcgaccttc accaatgtca actccaggat gctctacttc gcccctgatc tggttttcaa 3060
252 tgagtaccgc atgcacaagt cccggatgta cagccagtgt gtccgaatga ggcacctctc 3120
253 tcaagagttt ggatggctcc aaatcacccc ccaggaaattc ctgtgcatga aagcactgct 3180
254 actcttcagc attattccag tggatgggct gaaaaatcaa aaattctttg atgaacttcg 3240
255 aatgaactac atcaaggaac tcgatcgat cattgcatgc aaaagaaaaa atcccacatc 3300
256 ctgctcaaga cgcttctacc agctcaccaa gctcctggac tccgtgcagc ctattgagag 3360
257 agagctgcat cagttcactt ttgacctgct aatcaagtca cacatggtga gcgtggactt 3420
258 tccggaaatg atggcagaga tcactctctgt gcaagtgcc aagatccttt ctgggaaagt 3480
259 caagcccatc tatttcaca cccagtgact cgag 3514
262 <210> SEQ ID NO: 5
263 <211> LENGTH: 2716
264 <212> TYPE: DNA

```

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/523,899

DATE: 02/27/2006

TIME: 14:36:32

Input Set : A:\59562.APP.txt

Output Set: N:\CRF4\02272006\J523899.raw

L:10 M:270 C: Current Application Number differs, Replaced Current Application Number
L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date